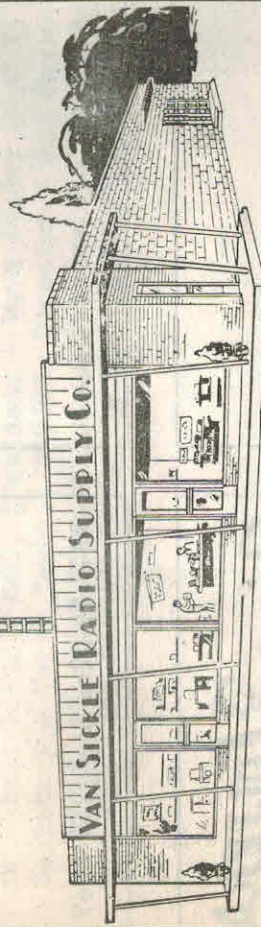


Gene

Van Sickle,

W9KJF

Features Ham gear in
new Finest Electronic
Supermarket with per-
sonal service.



PROMPT PERSONAL SERVICE * LIBERAL TRADES * EASY TERMS

IN STOCK

*EICO *Hammarlund *Drake *S B E *Gon-Set
*Hallicrafter *National *Clegg *Hy-Gain *Mosely
*And Other Popular Brands of HAM GEAR

One-Acre Parking Lot

4131 N. Keystone Ave.

On North East Side of Indianapolis

OPEN DAILY 9:00 to 6:00
INCLUDING SATURDAY

"We Are Equipped To Service Everything We Sell"

Ma cheswer

PUBLISHED FOR
INDIANAPOLIS RADIO CLUB, INC.
FOUNDED 1914



INDIANAPOLIS RADIO CLUB, INC.

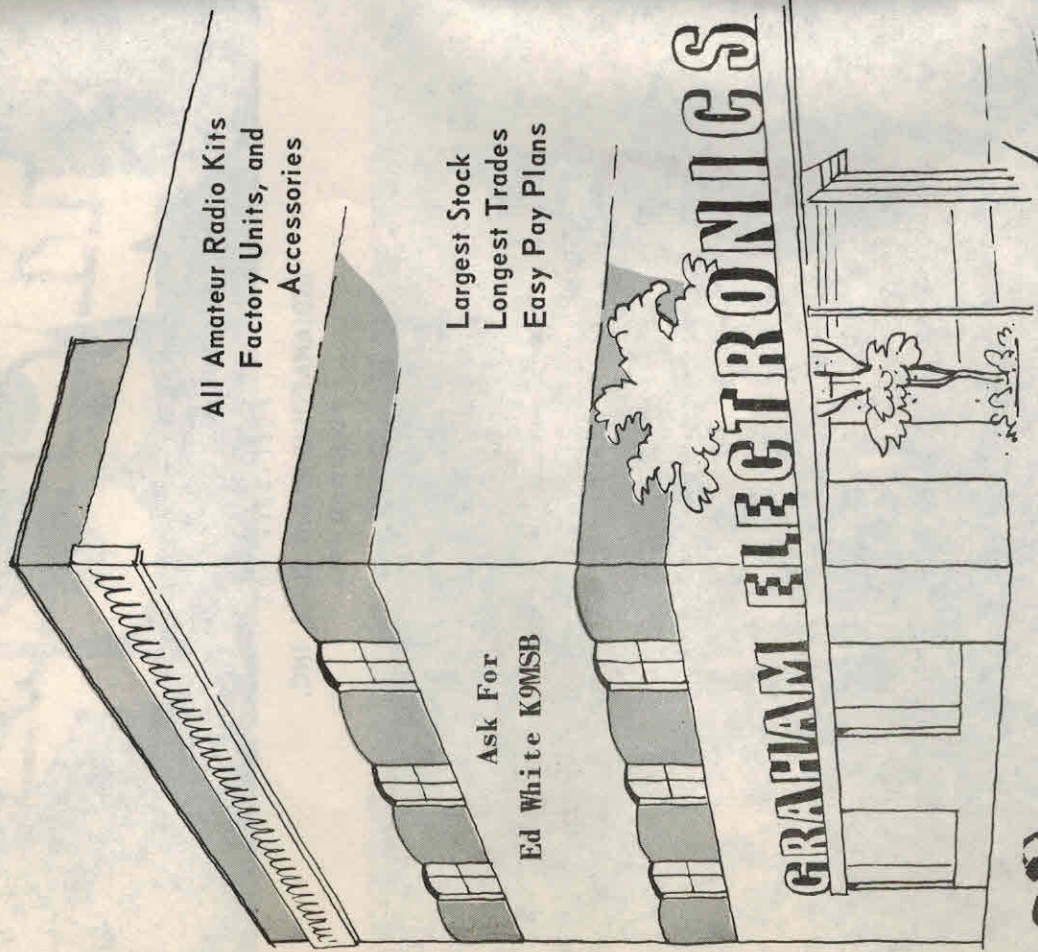
3716 Chateau Court

INDIANAPOLIS, IN 46226

FEBRUARY 1967

Your one stop

HAM HEADQUARTERS



INDIANAPOLIS
INDIANA

SUPPLY, INC.

GLENDAL
GLENDAL SHOPPING CENTER
62nd and Keystone

253 4261

DOWNTOWN
122 S. Senate Avenue

634 8486

FREE LISTING OF USED HAM EQUIPMENT ON REQUEST

The INDIANAPOLIS RADIO CLUB meets on the SECOND and FOURTH FRIDAYS of each month except July and August at Sams Technical Institute, 1720 E. 38th Street. Meetings start at 8 PM

1967 OFFICERS

PRESIDENT:

Ward L. Studor
3907 N. New Jersey

WA9CCX
283 7018

VICE-PRES:

Gerald Lucas
7830 Melborne Road

W9APJ
291 0372

SECRETARY:

Earl C. Terrill
6037 Crittenden Av

WA9JQH
255 7834

TREASURER:

Alvin J. Minnick
4945 Primrose Av

K9SUV
255 8953

CHIEF-OP'R:

William F. Lueth
6031 E. Pleasant Run Prkwy S.D.

W9DSC
356 7168

DIRECTOR:

James Sugioka
235 S. Ritter

W9CKB
356 2839

DIRECTOR:

Robert K. Caskey
2355 Stuart

W9DNQ
546 3089

EDITOR:

Richard M. Kinnett
3716 Chateau Court
Indianapolis, IN 46226

K9VIE
898 4539

Ama-Chewer is published monthly for the Indianapolis Radio Club, Inc., and all amateurs in the Indianapolis area. Non-members may subscribe for \$1.50 a year.

Publication is on the THIRD Friday of each month with all news items and ads due no later than the FIRST Friday.

Ham Ads (5 line limit) are free to members and subscribers. Others may submit ads for 50¢ each.

Ama-Chewer welcomes the forwarding of information on the coming events and activities of other clubs for publication. Send direct to Editor.

Exchange program free with other Amateur Radio Clubs. Contents may be copied if proper credit given. A.R.N.S.

THE PRESIDENT'S FREQUENCY

Do you have the slightest tendency to be getting bored with amateur radio? If so, it may be time to find a new challenge in the amateur field. Join the IRC. But don't stop at joining, participate and add something to the club. We have been told by long time hams that they have found a new happiness in getting in to the swim of things. Helping make new hams and helping others, with any ham problems. See Jim Suglioka W9CKB, Chairman of the Club's Technical Committee. See the kick you will get out of helping fellow hams.

DO WE NEED THE ARRL?

Probably one of the most common characteristics shared by all hams is self interest. A recent survey disclosed that less than $\frac{1}{2}$ of all hams belong to the ARRL or even a local radio club. However, they all admitted that they realized the importance of a strong organization in amateur radio, and that the League was serving a useful purpose. Before you make up your mind, let me ask six questions:- (1) Who speaks for hams when our frequencies are looked at with greedy eyes, both nationally and internationally? (2) Who is responsible for the organization of public service communications by which ham's usefulness is demonstrated and can be proven? (3) Who will go to bat for us if we are unfairly put on restricted operating privileges? (4) Who has published the most comprehensive handbook on every phase of our hobby? (5) Who is behind the effort to get intruders off the Amateur bands? (6) Who has been behind all the reciprocal agreements? Look at the facts objectively and unbiased. The answer is a resounding ARRL THAT'S WHO. The IRC has arrangements with the League so your membership to the League and subscription to QST can be gotten for the bargain price of only \$4.50. See our Secretary or Treasurer. They will carry through for you. Or speak to Director Bob Caskey W9DNQ, Membership Committee Chairman.

de Mark Studor
WA9CCX

*

CANADA CENTENNIAL AWARD:- By Ontario DX Associates, Station B, P. O. Box 717, Ontario, Canada 100 QSOs with 3B, 3C calls with five from each call area between 1 January 1967 and 31 December 1967... All bands, any mode.
ARNS

PROGRAM PREVIEW

After serving as program chairman for three of the last four years, I have about run dry. This year, therefore, I am going to try something new. Each business meeting night program will be assigned to specific club member. It will then become his responsibility to provide the program for that one night. He can either give the program himself, or arrange for someone else to stand in for him. I would urge that each of you do the job yourself rather than finding someone else. Read an article in QST, and explain it to the rest of us, build any piece of gear, and describe it, or tell us about your special interest in ham radio, or another hobby you may have. You don't have to be an accomplished public speaker, and a half-hour talk will be enough. I never knew a ham that couldn't talk for a half-hour non-stop. Good luck, I will be in the front row applauding you. Here are the assignments as well as other programs I have been able to arrange.

| | |
|---------|--|
| Feb. 24 | - ART SCHULTZ W9NNX - Space Communications |
| Mar 10 | - Bill Lueth W9DEC - Code contest |
| Mar 24 | - DICK JUDKINS -- to be announced |
| Apr 14 | - Dick Kinnett K9VIE - QSO to QSL |
| Apr 28 | - HANK WOLFLA K9LZJ - Antennae |
| May 12 | - Home Brew Night |
| May 26 | - W F B M TOUR |
| June 9 | - Jim Suglioka W9CKB - to be announced |
| June 23 | - SWAP and SHOP Auction |
| Sept 8 | - Bring vacation pix and slides |
| Oct 13 | - Bob Caskey W9DNQ - to be announced |
| Oct 27 | |
| Nov 10 | - Pat Flannigan WA9PLG - to be announced |
| Dec 8 | - Annual Meeting - election of officers |

Capt. Gerald Hechinger W9HRO, of RR 2, Box 5B, Mooresville is now EP2GH, after an application with IRAN for eight months.

*

Report on the Extra Class Licensing Code and Theory Class

As this is being written, the handful of survivors of the class have one more session then a clammy-handed trip to see the R. I. About one-third of the starters in the class stuck it out to the end, and two days remain before judgement will be pronounced on them. In spite of the fact that very few club members availed themselves of the opportunity to increase their proficiency, I still feel that this project was an excellent one, and if I don't make it this time, I will be among the first to sign up for the next class. Any failures will certainly a mpt be due to the caliber of the teaching...Craig Heindel W9ISU with an assist from Don Cowden W9JTL did a truly professional job on the theory, and Bill Ineth W9DSC did an excellent job on the code. If I make it on Feb. 10th please forgive a little bragging, and if I don't, how about joining with me and start getting ready for the next visit by the R. I.?

(Editors Note: W9APJ Jerry, W9DSC Bill and K9QJT Homer passed the test and W9JJC Alvey will try harder the next time!)

*

Question: "I keep a list of overseas countries where agreements permit 'third party messages'. But these I understand, are not the same as phone patch exchanges. Will you please indicate or confirm that the voice exchanges with all countries are OK as long as personal in nature and not commercial?"

Answer: "Sorry, but it is NOT true. There is no distinction between the context of informal third party voice communications and the sending of a radiogram. BOTH CONSTITUTE COMMUNICATIONS. The rules are in terms of 'communications'

*

GRAHAM ELECTRONICS

122 S. Senate Av
634 8486

62nd and Keystone
253 4261

SPECIALS FOR AMA-CHEWER READERS ONLY

| | | |
|----------------------|-------|----------|
| Collins KWS 1 | ----- | \$695.00 |
| Collins KWM 1 | ----- | 325.00 |
| Hallicrafters HT 40 | ----- | 28.00 |
| Hallicrafters SR 160 | ----- | 199.00 |
| HEATH DX 20 | ----- | 28.00 |
| HEATH HW 12 | ----- | 97.00 |
| HEATH MARAUDER HX 10 | ----- | 269.00 |
| Johnson Viking II | ----- | 39.00 |
| Johnson Ranger | ----- | 79.00 |
| See ED WHITE | ----- | K9MSB |

*

INDIANA AMATEUR TV AND UHF CLUB ACTIVITIES

A meeting of the Indiana Amateur TV and UHF Club was held on Saturday, January 21, 1967. The 62 amateurs attending enjoyed talks on VHF repeaters by Chuck Schreiber K9VPE, and Use of TV Test Charts by John Willenbrock WA9MIA.

The prize winners for the evening in the homebrew contest were:

FIRST - Fritz Manning W9VPN - TV Camera
SECOND - John Willenbrock WA9MIA - TV Camera

Door prizes were won by:

Doug Waltz call unknown, Jim Keeth W9JDN and Lew Carmean WA9DYT.

Refreshments were served by Sue Miller W9CNW, Mrs. Gene Roeschlein and Mrs. Dave Zeph.

The next big meeting will be held in MAY. It is hoped that we will have a complete rundown and demonstration of the aeronautical TV system that the club is planning.

The First relayed TV program was transmitted on Jan 22, when Ernie W9TCT at ST. Paul, Indiana transmitted a low powered TV signal on 446 mHz to Bill W9NTP at Waldren, Indiana and he simultaneously relayed to Indianapolis on 432 mHz to Fred W9VPN and Win W9JIY. Picture quality was good with no interference between the receiver and transmitter at the QTH of W9NTP. We hope to do more of this later. See you in MAY EVERONE IS WELCOME look for signs in all the radio stores.....

Wade Kingery and Bert Bucy, a blind operator, were furnishing news items for the Ama-Chewer which had been rather on a hit and miss basis during the war years. Bert however, had come by a lathe and was spending time learning how to operate same while Kingery was quoted as "Not having much to say". Wade has been turning up again at meetings now-a-days so perhaps he will loosen up and do some talking. The club had a file of QST magazines and was attempting to fill in the missing copies, wonder if these are still around? A newcomer was being advertised in QST, the 'Panadaptor'. Hallcrafters were advertising the S-40 receiver for \$79.50. K4FEC, William R. Foley was publishing his forecasting charts for long distance transmission. Superregenerative receivers were still being shown for 2 meters using some of the newer 7 pin miniature tubes that were coming into use. LORAN, which took the greater part of 160 meters, was being explained and we hope today it could be explained out of the band. Leroy Waggoner, W9YMW was on the QST staff at West Hartford and it is assumed that he was or had been given soldering instructions, because it seems the QST staffers frowned on Uncle Roys favorite method of soldering; holding the iron about two inches above the joint and applying solder to the tip and letting it drip on the joint below. Well, some can learn, can't they? Just for a little comparison, the HQ-129X was selling for \$129 and in recent used equipment listings, this receiver is selling for \$79 to 89.

In March of 1946, QST was announcing that the FCC was beginning to re-issue licenses including the WØ calls. For the modern TV amateur, the story was being told of the part amateurs had played in the development of missile-borne television cameras. Just a reminder that even paper to print QST on was a patch on a wrinkled page of QST that was printed and bound in the magazine because of the scarcity of magazine paper. In March, the 11 meter band had been activated with surprisingly little diathermy and industrial interference. Then you heard Diana Shore's new transmission-line song? - "Co-ax Me a Little".

W9DPL was reported teaching at Valpo Technical Institute. With car building starting again QST was editorializing about the ignition noise that would result as the hams get back on the air. Lucky for us, the automotive boys also found

that their own car radios were being interfered with and an extensive program of ignition engineering helped all on this problem. M.O.P.A. for Master Oscillator Power Amplifier was the name for the usual non-crystal controlled transmitters of the day. E.C.O, Electron Coupled Oscillators was the first of the VFO's as they are termed today. How time changes the names but not necessarily the modes or methods. Frequency shift keying was being discussed as a forerunner to teletype, as well as being advantageous to signal to noise ratio in the copying of code.

de Uncle Bob W9DNQ

*

Now is the time to pay your 1967 dues to Al Minnick K9SUW and keep your name on the mailing list. The Ama-chewer will be mailed to those only who have paid by 1 April 1967.

Make check for \$4.00 for IRC membership only or 8.50 for IRC and ARRL to: INDIANAPOLIS RADIO CLUB, Inc.

mail to: Alvin J. Minnick K9SUW
4945 Primrose Avenue
Indianapolis, IN 46205
*

Clean Sweep

Spring Sale

Come in now!

Van Sickle Radio Supply Co.

4131 N. Kensington

THE PRESIDENT'S FREQUENCY

I understand that this column has always been designated the 'president's frequency'. I never gave it much thought, but I now realize for the first time, it was properly named. Friday, January 13 (I looked for my rabbit foot) the 1967 club officers and directors were installed. After being given the oath and laying on of hands by Worthy Trustee - Alvey W9JJC, I began to realize what had happened. It was then I really went into oscillation - frequency - VHF/UHF on into infinity. That night, I just could not slide off into the land of slumber. Am not certain whether it is the president's frequency or the Chief Op's coffee, at any rate I got up and dashed off these words.

The directors and your president will strive to make 1967 an interesting and helpful year for all IRC members. It is hoped that all club members will more actively participate in the various activities and thereby receive more in return for their membership.

A program chairman and committee have been appointed. They will expect to utilize club members to a greater extent. Your program chairman, Vice President Jerry Lucas W9APJ, fully expects willingness and fullest co-operation.

A Technical Advisory Committee, with Director Jim Sugioka W9CKB as chairman, has been designated. The purpose of the committee is to provide technical consultation to club members and other hams who wish such advisory service. The idea is that anyone wishing consultative assistance, come to the club on any regular meeting date, make their wants known and a member of the Technical committee will advise them. This will be done in private and NOT BEFORE THE ENTIRE CLUB.

Dues for 1967 have been set at \$4.00, the same as for the last several years. Notice that dues are to be paid to the 1967 Treasurer Al Minnick K9SUW, have been mailed. The club is counting on all to promptly respond. Al is an accountant, and this very fact, assures prompt and correct accounting of all membership.

TNX for fb QSO es BCU

73

de Ward WA9CCX

*

Jim Sugioka W9CKB is now being heard with his new
DRAKE T4X.....SSB????? CW!



photo by K9vie

CHANGE OF COMMAND

The above photo is appearing rather late in the year, but since some of you have not been to any club meetings lately, I thought you might like to see what your new President looks like. Ward Studor WA9CCX (left) is receiving the gavel from T. G. (Jerry) Lucas W9APJ.

Ward is on a European tour at this present moment and has promised the membership a full report upon his return.

*

No News from Arizona this month, watza matta nash???

*

Dick Kinnett K9VIE lost his beam and tower the night of the big wind, February 15th, hope to be on the air soon though, I can not miss out on the YL/OM contest on the 25th. How is your insurance???

NOODLE NUDGER DEPARTMENT

Only one answer was received to last months quiz. It was submitted by Ward Studor WA9CCX

$$Z = \sqrt{R^2 + X^2} = \sqrt{10^2 + 10^2} = 14 \text{ rounded off to whole number}$$

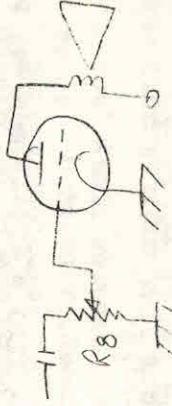
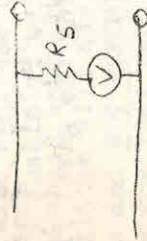
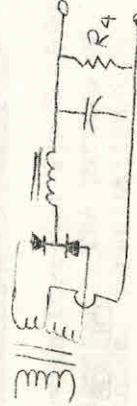
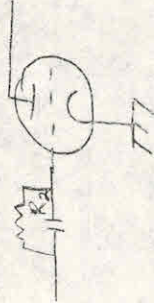
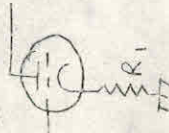
$$\text{voltage applied is } 10 \text{ volts thus}$$

$$I = \frac{E}{Z} = \frac{10}{7.14} = .714 \text{ amperes}$$

$$\text{voltage across resistor } .714 \times 10 = 7.14 \text{ say } 7$$

*

Resistors perform various functions in electronic gear, and are called by names which indicate in which specific function they are being used. See if you can give the proper name to the resistors in the schematics below.



Current limiting Isolating resistor Swamping

Volume control Grid Leak Voltage divider

1967 DAYTON HAMVENTION

Sponsored by the DAYTON AMATEUR RADIO ASSOCIATION

SATURDAY, APRIL 15, 1967

WAMPLER AREANA CENTER

PROGRAM

0700 - 1700 Registration
 0730 - 1800 Exhibits Open - Prizes on Display
 0900 - 1200 VHF FORUM Moderator - Ed Clegg W2LOY
 0900 - 1200 DX FORUM Moderators - Roy Hearsom W8LJZ, Don Miller W9WNV, Tony Rogozinski VQ9AR.
 0900 - 1200 RTTY FORUM Moderator - F. 'Dusty' Dunn W8CQ
 1140 - 1200 HIDDEN TRANSMITTER HUNT - Rudy Plak W8ZOF & Carl Yeager W8DWT conducting.

1200 - 1330 LUNCH

1330 - 1430 ARRL FORUM Moderator - Ken Mills W8RLY, Dana Cartwright W8UPB.
 1440 - 1700 ANTENNA FORUM Moderator - Joe Semkov W8IIP, Aaron 'Doc' Self W8FYR, Kirk Electronics
 1440 - 1700 SSB FORUM Moderators - Dotty Strauber K2HEA, Irv Strauber (Hammarlund) K2MGE, Milt Sullivan (R. L. Drake) K8YD0.

1440 - 1700 ARMY MARS - to be announced
 1400 - 1700 AIR FORCE MARS - Gil Brannan AFA8MUZ
 1400 - 1700 Amateur Radio Public Service FORUM Moderator James W. Benson W8OUU & Hank Greeb W8CHT.
 * Additional Forum Speakers will be announced.

1900 - HAMVENTION BANQUET
 Master of Ceremonies: Dan Graves W8ZTL
 Banquet Speaker - to be announced

PRIZES will be awarded at end of each technical session with the main prizes awarded at the banquet.

MAIN PRIZE:- A complete DRAKE Station R-4, T-4X, AC Power and Speaker...all you need is the key-errrr Mike and the Antenna. Not to mention a ticket and LOG.

TICKETS \$2.50 at the door, \$2.00 Advance.

WANTED: Tri-band Beam and Rotor WA9QMU Young Snodgrass
FOR SALE: Drake TR-4 with RV-3. WA9QMU Young Snodgrass
Box 411, Westfield, IN
phone 4 896 2676

*

Our cover this month shows the 1967 OFFICERS (left to right) Treasurer - Al Minnick K9SUW, Director - Bob Caskey W9DNQ, Vice President - Jerry Lucas W9APJ, Chief Of - Bill Lueth W9DSC, President - Ward Studor WA9CCX, Secretary - Terry Terrill WA9JQH, Director - Jim Sugio-ka W9CKB. Missing from photo was Trustee - Alvey Pittman W9JJC and Editor/Photographer Dick Kinnett K9VIE.

*

Ham Ads (5 line limit) are free to members and subscribers, others 50¢. Ham Ads MUST be submitted in writing, no phone calls please. Mail to Richard Kinnett K9VIE, 3716 Chateau Court, Indianapolis, IN 46226 by the FIRST Friday of month

**JOS. G.
CHARPIE**
Television Service
W9MW

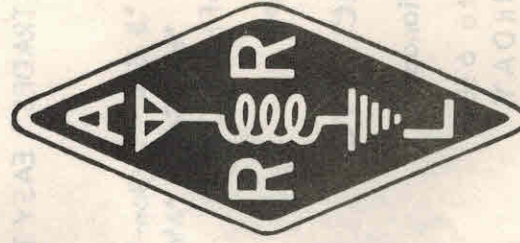
QUALITY SERVICE

on

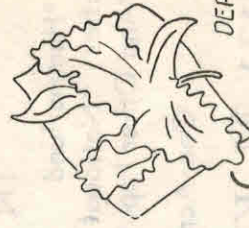
- TELEVISION • RADIO
- RECORD PLAYERS • HI-FI

• STEREO

1717 E. 52nd St. 253-4049



Fine Flowers
FOR EVERY
OCCASION



CITY WIDE
DELIVERY

COMPLETELY
DEPENDABLE SERVICE

**SCHWOMEYER
FLORIST**

1844 SHELBY

ST 6 9253

ROY W9YMW